A

ACCELERANTS
Unknown accelerant used to ignite manufacturing plant fire, 6.104
Unknown accelerant used to ignite school fire, 6.98
ADULT CONGREGATE LIVING FACILITY FIRES
Florida, 1994, 6.35
ADVERTISING SUPPLEMENTS
Alarm, detection, and security systems, 2.96
Building construction and electrical products, 5.126
Fire service equipment, supplies, and services, 1.87
Literature review, 4.103, 6.121
NFPA 1995 Annual Meeting exhibitors, 3.135
AEROSOL CONTAINERS
Paint cans explode in warehouse fire, 6.38
AIRCRAFT CRASH FIRES
Catastrophic, DC-9, North Carolina, July 2, 1994, 5.68
Catastrophic, F-16 and C-130 midair collision, North Carolina, March 23, 1994, 5.67
Catastrophic, twin-engine plane, Connecticut, April 27, 1994, 5.67
DC-9-35 crashes near runway, North Carolina, July, 1994, 6.110
Jetstream 4101 crashes into warehouse, Ohio, Jan., 1994, 6.110
Lear jet crashes into residential/commercial area, Dec., 1994, 6.110
Military aircraft, July, 1994, 6.110
Military aircraft, North Carolina, June, 1994, 6.110
Statistics compared to motor vehicle fire statistics, 4.120
AIRCRAFT HANGAR FIRES
California, 1994, 5.36
ALABAMA
Catastrophic board-and-care facility fire, Oct. 19, 1994, 5.62
Manufacturing plant fire, Feb., 1994, 6.107
ALARM DELAYED
Detector alarms not heard outside empty building, 6.108
Detectors below fire, 6.99
Dispatched to wrong address, 5.64
Employee(s) confirmed fire, 4.39, 40, 6.98
Employee(s) fought fire, 1.34, 2.31, 6.104, 106, 107
Neighbor fought fire, 5.34
911 system lacking, 5.58
No fire detectors, 6.108
Occupant(s) fought fire, 3.38, 4.37, 5.53
Passerby left site to report fire, 5.35
Reason unknown, 5.36, 6.38
Smoke detectors below area of fire origin, 6.106
Smoke detectors lacking, 1.34
Smoke detectors not set off immediately, 2.30
Sprinkler system not connected to central alarm, 3.39
Telephones lacking in building, 5.58
Telephones not operable due to fire, 6.99
ALARM SYSTEMS
Proprietary system at Chrysler Corp. Technology Center, 3.129
Reliable hardware, system design, installation, maintenance all needed, 1.49
Software management is crucial, 1.54
Sound and strobe alarms required by Americans with Disabilities Act, 4.58
ALARMS, FALSE
Causes, costs, and solutions to U.S. false alarm problem, 1.45
Delayed response in fatal fire, 6.37
ALASKA
Store fire, April, 1994, 6.100
ALCOHOL (BEVERAGE)
Factor in catastrophic automobile fire, 5.68
Factor in catastrophic dwelling fire, 5.60
Factor in fatal apartment building fire, 5.34
Factor in fatal motor home fire, 5.36
AMERICANS WITH DISABILITIES ACT
Understanding Title III of Act, 4.54
APARTMENT BUILDING FIRES
Arizona, 1994, 6.37
California, Dec., 1994, 6.110
Catastrophic, California, June 6, 1994, 5.59
Catastrophic, Illinois, March 20, 1994, 5.53
Catastrophic, Louisiana, Aug. 10, 1994, 5.60
Catastrophic, Massachusetts, March 21, 1994, 5.59
Catastrophic, Minnesota, Feb. 28, 1994, 5.58
Catastrophic, New York, Aug. 22, 1994, 5.66
Catastrophic, Ohio, Jan. 12, 1994, 5.58
Illinois, 1994, 4.37
Massachusetts, 1994, 5.34
Michigan, Feb., 1994, 6.99
Missouri, 1994, 3.37
New York, Aug., 1994, 6.100
New York, March 28, 1994, 6.85
North Carolina, 1994, 4.38, 5.34
Utah, 1994, 6.36
ARIZONA
Fatal apartment building fire, 1994, 6.37
ARKANSAS
Fatal manufacturing plant fire, Aug., 1994, 6.107
Incinerator plant fire, 1994, 6.38
Manufacturing plant fire, Dec., 1994, 6.106
Manufacturing plant fire, July, 1994, 6.104

Key to references:

1=Jan/Feb 2=Mar/Apr
3=May/Jun 4=Jul/Aug
5=Sept/Oct 6=Nov/Dec

1.35 = Jan/Feb, pg. 35;
2.9 = Mar/Apr, pg. 9, etc.

ATTICS
Fire spread into, 4.39, 5.36, 6.98, 100, 108
Lack of separations factor in fire spread, 6.108
AUTOMOBILE FIRES
Catastrophic, California, March 3, 1994, 5.68
Catastrophic, Iowa, Nov. 23, 1994, 5.68
Catastrophic, Tennessee, Nov. 11, 1994, 5.68
Catastrophic, Texas, Jan. 18, 1994, 5.68
Catastrophic, Virginia, Aug. 1, 1994, 5.68
Kansas, 1994, 2.31
AUTOMOBILE REPAIR SHOP FIRES
Georgia, Jan., 1994, 6.100

B

BACKDRAFTS
Model of incident, apartment building fire, New York, N.Y., March 28, 1994, 6.85
BEDDING
Ignited by candle, 5.53
Ignited by child with cigarette lighter, 4.37
Ignited by cigarette, 2.30
Ignited by cigarette lighter, 2.31, 5.54
Ignited by kerosene heater in fatal fire, 1.34
Ignited by smoking materials in catastrophic fires, 5.64
Ignited by space heater, 5.53
BELL, A. D.
Profile of, 5.26
BOARD-AND-CARE FACILITY FIRES
Catastrophic, Alabama, Oct. 9, 1994, 5.62
Catastrophic, Florida, Dec. 1, 1994, 5.64
BOAT FIRES
Massachusetts, 1994, 4.39
BOATS
Electrical safety requirements for repair equipment, wiring, 5.40
BOATYARDS
Electrical safety requirements, 5.40
BOULDER, COLO.
Fire inspection requirements determined by life safety evaluation, 1.57
BRANCH DAVIDIAN COMPLEX FIRE
Fire investigation, Congressional testimony, 6.91
BRANNIGAN, FRANK
Profile of, 1.23
BUGBEE, PERCY
Past NFPA general manager, 6.77
BUILDING SCENE COLUMNS
Basis-for-design reports help authority having jurisdiction and building owner, 4.24
Designing buildings for performance-based codes, 5.20
Evaluating equivalencies and exceptions to fire code standards, 1.16
Performance objectives for existing buildings, 6.22
Performance-based code development, 2.16
Performance-based codes based on existing codes, 3.24
BUILDING-UNDER-CONSTRUCTION FIRES
Dwelling, Massachusetts, 1994, 1.34
Museum, Oregon, 1994, 6.35
Ohio, March, 1994, 6.110
BURNING ISSUES COLUMNS
Children and fires, statistics, 5.144
Cigarette smoking statistics, 3.160
Costs associated with fire, 6.136
Motor vehicle and aircraft fire statistics compared, 4.120
BURNS
Burns and smoke compared as fire death causes, 1.38

C

CALIFORNIA
Aircraft fire, July, 1994, 6.110
Aircraft hangar fire, 1994, 5.36
Catastrophic apartment building fire, June 6, 1994, 5.59
Catastrophic dwelling fire, Nov. 29, 1994, 5.62
Catastrophic vehicle fire, March 3, 1994, 5.68
Earthquake, Northridge, Jan. 17, 1994, 3.52
Fatal aircraft fire, Dec., 1994, 6.110
Fatal dwelling fire, 1994, 2.30
Fatal test facility fire, 4.40
Manufacturing plant fire, 1994, 4.40
Manufacturing plant fire, April, 1994, 6.107
Manufacturing plant fire, March, 1994, 6.106
Motor home fire, 1994, 5.36
Office building, 1994, 5.35
Radio station fire, 1994, 4.40
Wildland/urban interface fire, June, 1994, 6.111
Wildland/urban interface fires, Aug., 1994, 6.111
CANDLES
Catastrophic dwelling fire caused by, 5.53, 59
Fatal dwelling fire caused by, 1.34, 6.37
CARBON DIOXIDE
Used to extinguish electrical fire, 5.35
Used to extinguish nuclear energy plant fire, 6.102
CARBON DIOXIDE SYSTEMS
Lacked sufficient agent for extinguishment, 6.108
CARPETS AND RUGS
Ignited by extension cord, 6.37
Ignited by smoking materials in catastrophic fire, 5.56
CATASTROPHIC FIRES
U.S., 1994, study of, 5.48
CEILINGS. *See also* CONCEALED SPACES
Cutting torch ignites material, 6.108
Fire spread to structural members in, 6.100
Vaulted design factor in fire spread, 6.107
CHEMICAL FIRES
Potassium superoxide reacts with organic material, 6.38
CHEMICAL PLANT FIRES
Catastrophic, Iowa, Dec. 13, 1994, 5.66
Catastrophic, Ohio, May 27, 1994, 5.66
CHIEF'S BRIEFING COLUMNS
Arson's terrible toll, 2.112
Burdens of command, 4.23
Juvenile firesetters need social services, 3.23
Leadership requires political savvy, 6.21
Truck company duties need emphasis in training, planning, 5.19
Urban Fire Forum discusses global trends, 1.104
CHILDREN
Fatalities due to playing with fire, 1.32
Victims and cause of fires, statistics, 5.144
CHILDREN, UNATTENDED
Catastrophic fire victims, 5.54
Fatal fire victims, 1.34, 4.38
CHILDREN AND CIGARETTE LIGHTERS
Catastrophic fire cause, 5.54
Fatal fire cause, 3.38, 4.38, 5.34, 6.36
Fire cause, 4.37
CHILDREN AND FIREWORKS
Manufacturing plant fire caused by, 3.40
CHILDREN AND MATCHES
Catastrophic fire cause, 5.59
Fatal fire caused by, 3.37
CHRISTMAS TREE FIRES
Illinois, 1994, 6.36
Massachusetts, Dec. 24, 1994, 5.54
CHURCH FIRES
Ohio, 1994, 3.39

A

ACCELERANTS
Unknown accelerant used to ignite manufacturing plant fire, 6.104
Unknown accelerant used to ignite school fire, 6.98
ADULT CONGREGATE LIVING FACILITY FIRES
Florida, 1994, 6.35
ADVERTISING SUPPLEMENTS
Alarm, detection, and security systems, 2.96
Building construction and electrical products, 5.126
Fire service equipment, supplies, and services, 1.87
Literature review, 4.103, 6.121
NFPA 1995 Annual Meeting exhibitors, 3.135
AEROSOL CONTAINERS
Paint cans explode in warehouse fire, 6.38
AIRCRAFT CRASH FIRES
Catastrophic, DC-9, North Carolina, July 2, 1994, 5.68
Catastrophic, F-16 and C-130 midair collision, North Carolina, March 23, 1994, 5.67
Catastrophic, twin-engine plane, Connecticut, April 27, 1994, 5.67
DC-9-35 crashes near runway, North Carolina, July, 1994, 6.110
Jetstream 4101 crashes into warehouse, Ohio, Jan., 1994, 6.110
Lear jet crashes into residential/commercial area, Dec., 1994, 6.110
Military aircraft, July, 1994, 6.110
Military aircraft, North Carolina, June, 1994, 6.110
Statistics compared to motor vehicle fire statistics, 4.120
AIRCRAFT HANGAR FIRES
California, 1994, 5.36
ALABAMA
Catastrophic board-and-care facility fire, Oct. 19, 1994, 5.62
Manufacturing plant fire, Feb., 1994, 6.107
ALARM DELAYED
Detector alarms not heard outside empty building, 6.108
Detectors below fire, 6.99
Dispatched to wrong address, 5.64
Employee(s) confirmed fire, 4.39, 40, 6.98
Employee(s) fought fire, 1.34, 2.31, 6.104, 106, 107
Neighbor fought fire, 5.34
911 system lacking, 5.58
No fire detectors, 6.108
Occupant(s) fought fire, 3.38, 4.37, 5.53
Passerby left site to report fire, 5.35
Reason unknown, 5.36, 6.38
Smoke detectors below area of fire origin, 6.106
Smoke detectors lacking, 1.34
Smoke detectors not set off immediately, 2.30
Sprinkler system not connected to central alarm, 3.39
Telephones lacking in building, 5.58
Telephones not operable due to fire, 6.99
ALARM SYSTEMS
Proprietary system at Chrysler Corp. Technology Center, 3.129
Reliable hardware, system design, installation, maintenance all needed, 1.49
Software management is crucial, 1.54
Sound and strobe alarms required by Americans with Disabilities Act, 4.58
ALARMS, FALSE
Causes, costs, and solutions to U.S. false alarm problem, 1.45
Delayed response in fatal fire, 6.37
ALASKA
Store fire, April, 1994, 6.100
ALCOHOL (BEVERAGE)
Factor in catastrophic automobile fire, 5.68
Factor in catastrophic dwelling fire, 5.60
Factor in fatal apartment building fire, 5.34
Factor in fatal motor home fire, 5.36
AMERICANS WITH DISABILITIES ACT
Understanding Title III of Act, 4.54
APARTMENT BUILDING FIRES
Arizona, 1994, 6.37
California, Dec., 1994, 6.110
Catastrophic, California, June 6, 1994, 5.59
Catastrophic, Illinois, March 20, 1994, 5.53
Catastrophic, Louisiana, Aug. 10, 1994, 5.60
Catastrophic, Massachusetts, March 21, 1994, 5.59
Catastrophic, Minnesota, Feb. 28, 1994, 5.58
Catastrophic, New York, Aug. 22, 1994, 5.66
Catastrophic, Ohio, Jan. 12, 1994, 5.58
Illinois, 1994, 4.37
Massachusetts, 1994, 5.34
Michigan, Feb., 1994, 6.99
Missouri, 1994, 3.37
New York, Aug., 1994, 6.100
New York, March 28, 1994, 6.85
North Carolina, 1994, 4.38, 5.34
Utah, 1994, 6.36
ARIZONA
Fatal apartment building fire, 1994, 6.37
ARKANSAS
Fatal manufacturing plant fire, Aug., 1994, 6.107
Incinerator plant fire, 1994, 6.38
Manufacturing plant fire, Dec., 1994, 6.106
Manufacturing plant fire, July, 1994, 6.104

Key to references:

1=Jan/Feb 2=Mar/Apr
3=May/Jun 4=Jul/Aug
5=Sept/Oct 6=Nov/Dec

1.35 = Jan/Feb, pg. 35;
2.9 = Mar/Apr, pg. 9, etc.

ATTICS
Fire spread into, 4.39, 5.36, 6.98, 100, 108
Lack of separations factor in fire spread, 6.108
AUTOMOBILE FIRES
Catastrophic, California, March 3, 1994, 5.68
Catastrophic, Iowa, Nov. 23, 1994, 5.68
Catastrophic, Tennessee, Nov. 11, 1994, 5.68
Catastrophic, Texas, Jan. 18, 1994, 5.68
Catastrophic, Virginia, Aug. 1, 1994, 5.68
Kansas, 1994, 2.31
AUTOMOBILE REPAIR SHOP FIRES
Georgia, Jan., 1994, 6.100

B

BACKDRAFTS
Model of incident, apartment building fire, New York, N.Y., March 28, 1994, 6.85
BEDDING
Ignited by candle, 5.53
Ignited by child with cigarette lighter, 4.37
Ignited by cigarette, 2.30
Ignited by cigarette lighter, 2.31, 5.54
Ignited by kerosene heater in fatal fire, 1.34
Ignited by smoking materials in catastrophic fires, 5.64
Ignited by space heater, 5.53
BELL, A. D.
Profile of, 5.26
BOARD-AND-CARE FACILITY FIRES
Catastrophic, Alabama, Oct. 9, 1994, 5.62
Catastrophic, Florida, Dec. 1, 1994, 5.64
BOAT FIRES
Massachusetts, 1994, 4.39
BOATS
Electrical safety requirements for repair equipment, wiring, 5.40
BOATYARDS
Electrical safety requirements, 5.40
BOULDER, COLO.
Fire inspection requirements determined by life safety evaluation, 1.57
BRANCH DAVIDIAN COMPLEX FIRE
Fire investigation, Congressional testimony, 6.91
BRANNIGAN, FRANK
Profile of, 1.23
BUGBEE, PERCY
Past NFPA general manager, 6.77
BUILDING SCENE COLUMNS
Basis-for-design reports help authority having jurisdiction and building owner, 4.24
Designing buildings for performance-based codes, 5.20
Evaluating equivalencies and exceptions to fire code standards, 1.16
Performance objectives for existing buildings, 6.22
Performance-based code development, 2.16
Performance-based codes based on existing codes, 3.24
BUILDING-UNDER-CONSTRUCTION FIRES
Dwelling, Massachusetts, 1994, 1.34
Museum, Oregon, 1994, 6.35
Ohio, March, 1994, 6.110
BURNING ISSUES COLUMNS
Children and fires, statistics, 5.144
Cigarette smoking statistics, 3.160
Costs associated with fire, 6.136
Motor vehicle and aircraft fire statistics compared, 4.120
BURNS
Burns and smoke compared as fire death causes, 1.38

C

CALIFORNIA
Aircraft fire, July, 1994, 6.110
Aircraft hangar fire, 1994, 5.36
Catastrophic apartment building fire, June 6, 1994, 5.59
Catastrophic dwelling fire, Nov. 29, 1994, 5.62
Catastrophic vehicle fire, March 3, 1994, 5.68
Earthquake, Northridge, Jan. 17, 1994, 3.52
Fatal aircraft fire, Dec., 1994, 6.110
Fatal dwelling fire, 1994, 2.30
Fatal test facility fire, 4.40
Manufacturing plant fire, 1994, 4.40
Manufacturing plant fire, April, 1994, 6.107
Manufacturing plant fire, March, 1994, 6.106
Motor home fire, 1994, 5.36
Office building, 1994, 5.35
Radio station fire, 1994, 4.40
Wildland/urban interface fire, June, 1994, 6.111
Wildland/urban interface fires, Aug., 1994, 6.111
CANDLES
Catastrophic dwelling fire caused by, 5.53, 59
Fatal dwelling fire caused by, 1.34, 6.37
CARBON DIOXIDE
Used to extinguish electrical fire, 5.35
Used to extinguish nuclear energy plant fire, 6.102
CARBON DIOXIDE SYSTEMS
Lacked sufficient agent for extinguishment, 6.108
CARPETS AND RUGS
Ignited by extension cord, 6.37
Ignited by smoking materials in catastrophic fire, 5.56
CATASTROPHIC FIRES
U.S., 1994, study of, 5.48
CEILINGS. *See also* CONCEALED SPACES
Cutting torch ignites material, 6.108
Fire spread to structural members in, 6.100
Vaulted design factor in fire spread, 6.107
CHEMICAL FIRES
Potassium superoxide reacts with organic material, 6.38
CHEMICAL PLANT FIRES
Catastrophic, Iowa, Dec. 13, 1994, 5.66
Catastrophic, Ohio, May 27, 1994, 5.66
CHIEF'S BRIEFING COLUMNS
Arson's terrible toll, 2.112
Burdens of command, 4.23
Juvenile firesetters need social services, 3.23
Leadership requires political savvy, 6.21
Truck company duties need emphasis in training, planning, 5.19
Urban Fire Forum discusses global trends, 1.104
CHILDREN
Fatalities due to playing with fire, 1.32
Victims and cause of fires, statistics, 5.144
CHILDREN, UNATTENDED
Catastrophic fire victims, 5.54
Fatal fire victims, 1.34, 4.38
CHILDREN AND CIGARETTE LIGHTERS
Catastrophic fire cause, 5.54
Fatal fire cause, 3.38, 4.38, 5.34, 6.36
Fire cause, 4.37
CHILDREN AND FIREWORKS
Manufacturing plant fire caused by, 3.40
CHILDREN AND MATCHES
Catastrophic fire cause, 5.59
Fatal fire caused by, 3.37
CHRISTMAS TREE FIRES
Illinois, 1994, 6.36
Massachusetts, Dec. 24, 1994, 5.54
CHURCH FIRES
Ohio, 1994, 3.39

Virginia, July, 1994, 6.98
CIGARETTE LIGHTERS. *See also* CHILDREN AND CIGARETTE LIGHTERS
Incendiary fire ignition source, 2.31, 4.37
CIGARETTES
Careless disposal of, catastrophic dwelling fire factor, 5.60
Careless disposal of, manufacturing plant fire cause, 6.107
Careless use of, group home fire cause, 6.35
Statistics on cigarette use, fires, 3.160
CLOTHING FIRES
Ignited by gas-fired furnace, 5.54
Ignited by smoking materials, 5.64
Ignited by space heater, 5.53
CLUB FIRES
Cocoanut Grove, Boston, Mass., Nov. 1942, 6.81
Country club, Illinois, 1994, 3.39
Oklahoma, Jan., 1994, 6.98
CODES AND STANDARDS
Basis-for-design reports help authority having jurisdiction, building owner, 4.24
Designing buildings for performance-based codes, 5.20
Evaluating equivalencies and exceptions to standards, 1.16
Fire models to evaluate alternative designs, 2.68
High technology detectors require new standards, 5.42
Nursing home fire verifies authority having jurisdiction/engineer's sprinkler design, 2.85
Performance objectives for existing buildings, 6.22
Performance-based code development, 2.16
Performance-based codes based on existing codes, 3.24
COLLEGE BUILDING FIRES
Classroom building, Indiana, 1994, 5.35
Classroom building, Kentucky, 1994, 5.35
Fraternity house, Rhode Island, 1994, 3.37
COLORADO
Catastrophic wildland fire, July 3, 1994, 2.51, 5.67
COLORADO SPRINGS, COLO.
Computer mapping used by fire service, 1.84
COMPUTERS AND RELATED EQUIPMENT
Fire alarm software requires careful management, 1.54
Fire in uninterrupted power supply spreads to cables, 2.30
Fire service use of, 1.76
Internet's fire protection applications, 6.41
CONCEALED SPACES
Attic, fire spread into, 5.64
Attic/roof, fire spread into, 4.37, 40, 6.98
Ceiling, fire spread into, 5.64, 6.99, 104
Ceiling/floor, fire spread into, 4.37
Ceiling/floor, fire started in, 5.56
Ceiling/roof, fire spread into, 5.59, 6.107
Ceiling/roof, fire started in, 6.106
Cockloft, fire spread into, 4.39
Fire spread into, 6.108
Floor, fire started in, 5.54
Roof, fire spread into, 6.107
CONNECTICUT
Catastrophic aircraft fire, April 27, 199-, 5.67
Hartford circus fire, July 1944, 6.81
CUTTING-AND-WELDING OPERATIONS. *See* WELDING-AND-CUTTING OPERATIONS

D

DENVER, COLO.
Fire department, 3.118
DETECTION SYSTEMS
Not a factor in fire, not operational due to poor maintenance, 6.104
Not in service, not a factor in fire, 5.35
Optical flame system design, 3.105
DETECTORS
Fire above detectors, not a factor in fire, 6.99
High technology requires new standards, integration with building controls, 5.42
DETECTORS, SMOKE, NOT A FACTOR IN FIRE
Batteries missing, 1.34, 4.37, 38, 5.34, 54, 56, 60, 6.37
Fan motor short circuits, causes combustible to ignite, 6.106
Fire above detectors, 6.106
Not in service, 4.38, 6.35, 37, 99
Power supply shut off, 5.54
Reason unknown, 5.53, 60
Removed, 5.60
Short circuit caused breaker to trip, 5.59
DETECTORS, SMOKE, SATISFACTORY PERFORMANCE, 2.29, 3.38, 6.107
DETECTORS, SMOKE, UNSATISFACTORY PERFORMANCE, 2.30, 31, 6.98, 107
DETENTION FACILITY FIRES
Ohio State Penitentiary, April 21, 1930, 5.84
Pennsylvania, 1994, 5.33
DOORS
Fire vented through, 5.56, 59
Locked, factor in fatal fire, 3.37
Nailed shut, factor in fatal fire, 3.37
Open, fire spread through, 5.64, 6.35, 6.99
Open, smoke spread through, 5.64
DOORS, FIRE
Automatic, limited fire spread, 1.31
Open, fire spread through, 6.35, 103
Overhead doors, failed to operate, factor in fire spread, 6.103
Roll-down, limited fire spread, 6.38
DORMITORY FIRES
Pennsylvania, April, 1994, 6.99
DROUGHT
Wildland fire factor, 5.67, 6.111
DRUGS, ILLEGAL
Cooking chemicals ignite apartment building fire, 6.36
Factor in catastrophic dwelling fire, 5.60
DRY CHEMICAL EXTINGUISHING SYSTEMS
Delayed activation, but partly successful in restaurant fire, 2.31
Electrical substation plant extinguished with, 6.100
DUCTS
Electrical connection grounded through, 5.35
DUST
Factor in furniture manufacturing plant explosion/fire, 6.103
DWELLING FIRES. *See also* MANUFACTURED HOME FIRES
California, 1994, 2.30
Illinois, 1994, 6.36
Maryland, 1994, 3.38
Mississippi, 1994, 4.38
Missouri, 1994, 5.34
New Jersey, 1994, 6.37
New York, 1994, 4.37
North Carolina, 1994, 1.34
Pennsylvania, 1994, 1.34
Texas, 1994, 2.29
Washington, 1994, 6.36
DWELLING FIRES, CATASTROPHIC
California, Nov. 29, 1994, 5.62
Illinois, Aug. 14. 1994, 5.54
Indiana, Aug. 9, 1994, 5.56
Indiana, June 30, 1994, 5.60
Iowa, March 24, 1994, 5.54
Kentucky, Sept. 30, 1994, 5.60
Maryland, Feb. 26, 1994, 5.53
Maryland, Jan. 9, 1994, 5.54
Massachusetts, Dec. 24, 1994, 5.54
Michigan, July 13, 1994, 5.56
Mississippi, April 3, 1994, 5.59
Montana, Sept. 24, 1994, 5.60
New Jersey, Dec. 28, 1994, 5.53
New York, Dec. 4, 1994, 5.62
New York, Feb. 10, 1994, 5.54
New York, Jan. 28, 1994, 5.58
New York, June 28, 1994, 5.60
North Carolina, Feb. 28, 1994, 5.58
North Dakota, Oct. 7, 1994, 5.53
Ohio, Jan. 26, 1994, 5.56
Oklahoma, Nov. 20, 1994, 5.62
Pennsylvania, April 6, 1994, 5.59
Pennsylvania, Dec. 23, 1994, 5.58
Pennsylvania, Oct. 21, 1994, 5.60
DWELLING-UNDER-CONSTRUCTION FIRES
Massachusetts, 1994, 1.34

E

EARTHQUAKES AND SUBSEQUENT FIRES
Earthquake kits for home and car, 3.55
How to react to quake, 3.64
Northridge, Calif., Jan. 17, 1994, 3.52
EDITORIALS
Children's sleepwear regulations threatened by proposed amendments, 5.6
Fire safety knowledge is power, 1.6
National Electrical Code celebrates 100th anniversary, 3.6
National Fire Incident Reporting System provides important data, 2.6
NFPA responds to demands of global community, 4.6
NFPA, the next 100 years, 6.6
EGRESS
Blocked by furniture, stored goods in catastrophic fire, 5.53
ELECTRIC GENERATING PLANT FIRES
Illinois, April, 1994, 6.102
Illinois, Nov., 1994, 6.100
South Carolina, Dec., 1994, 6.100
ELECTRIC MOTORS
Motor and motor-controller disconnect requirements, 4.42
ELECTRICAL EQUIPMENT FIRES
Christmas tree lights, short, ignite tree, 6.36
Cord, improperly modified, overheats, causes short circuit, 5.60
Extension cord, failed, ignites carpeting, 6.37
Fan, improperly wired, causes grounding through ducts, ignites wood, 5.35
Fan malfunctions, ignites dry wood, 6.99
Fan motor overheats, ignites plastic trim, 5.33
Fluorescent light ballast ignites wood framing, 2.32
Light fixture arc ignites fire, 5.54
Mercury vapor light fixture ignites stored mattresses, 4.39
Production equipment malfunctions, ignites combustibles, 6.107
ELECTRICAL FIRES
Absence of ground key element in fire, 5.35
Conduit penetrated by screw, ignites fire, 6.99
Electrical arc ignites hydrogen, 6.102
Fault in control cable causes generating plant fire, 6.100
Short circuit ignites plywood wall, 6.107
Short circuit possibly ignites automobile fire, 2.31
Underground feed lines penetrated by augur, cause short circuit, 6.100
Uninterrupted power supply unit ignites fire, 2.30
Wiring, cloth-covered, malfunctions, ignites wood framing, 5.62
Wiring, overloaded, ignites wood framing, 5.56
Wiring ignites fire, 4.40
Wiring malfunction in concealed space ignites fire, 5.56
ELECTRICAL SAFETY COLUMNS
Boat repair safety requirements for wiring, equipment, 5.40
Holiday lighting hazards, 6.42
Motor and motor-controller disconnect requirements, 4.42
National Electrical Code work space requirements for energized electrical equipment, 1.37
Resistance-type heat tape installation to prevent frozen water pipes, 3.45
Staying safe around high-voltage equipment, 2.34
EMERGENCY MANAGEMENT
Basics of mitigation, preparation, response, and recovery, 4.44
Oklahoma City bombing, April 19, 1995, 4.51
EMERGENCY MEDICAL SERVICE
Fire service public service programs, 1.70
EMERGENCY RESPONSE SYSTEMS
E911 fails in telephone exchange fire, 5.109
Northridge, Calif., earthquake, Jan. 17, 1994, 3.52
ENVIRONMENT
NFPA report on foam and environment, 3.67
EVACUATIONS
Adult congregate living facility, successful, 6.35
Area around chemical manufacturing plant, successful, 5.66
Board-and-care facility, unsuccessful, 5.64
Hazardous waste incinerator, successful, 6.38
High-rise office building complex (World Trade Center, New York), 2.59
EWELL, P. LAMONT
Profile of, 3.30
EXITS
Blocked by furniture, factor in catastrophic fire, 5.59
EXPLOSION SUPPRESSION SYSTEMS
Disabled, not a factor in explosion, 6.103
EXPLOSIONS
Paper mill, Florida, April 13, 1994, 5.66, 6.106
Steel plant, Ohio, April 20, 1994, 5.64
EXPLOSIONS AND FIRES
Boat, Massachusetts, 1994, 4.39
Chemical fertilizer plant, Iowa, Dec. 13, 1994, 5.66

Chemical plant, Ohio, May 27, 1994, 5.66
Electric generating plant, Illinois, Nov., 1994, 6.100
Electric generating plant, South Carolina, Dec., 1994, 6.100
Hazardous waste incinerator, Arkansas, 1994, 6.38
Manufacturing plant, North Carolina, Oct. 20, 1994, 6.103
Methanol production plant, Texas, Oct., 1994, 6.102
Office building, Oklahoma City, April 19, 1995, 4.51
Rocket propellant test facility, California, 1994, 4.40
Soybean processing plant, Indiana, June, 1994, 6.103
World Trade Center, New York, Feb. 26, 1993, 2.59
EXTINGUISHERS
Successful in nursing home fire, 5.33
Successful in store/warehouse fire, 3.39
Unsuccessful in adult congregate living facility fire, 6.35
Unsuccessful in dormitory fire, 6.99
Unsuccessful in food processing plant fire, 6.104
Unsuccessful in meat processing plant fire, 6.106
Unsuccessful in museum fire, 6.35
EXTINGUISHERS, DRY CHEMICAL
Successful in electric vault fire, 5.35
Successful in school fire, 3.39
Unsuccessful in Christmas tree fire, 6.36
Unsuccessful in detention center fire, 5.33
Unsuccessful in hotel fire, 2.29

F

FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)
Disaster management role, 4.46
FIRE BARRIERS
Inadequate, factor in fatal fire, 5.36
FIRE DEATHS, U.S. *See also* CATASTROPHIC FIRES; FIRE FIGHTER FATALITIES
Civilian deaths, 1994, 5.93
Smoke and burns compared as causes, 1.38
FIRE INSPECTIONS
Required inspections determined by life safety evaluation, 1.57
FIRE LOSS, U.S.
1994 report, 5.93
FIRE MODELS
Alternative designs evaluated using, 2.68
Backdraft incident, apartment building fire, March 28, 1994, New York, N.Y., 6.85
FIRE PREVENTION WEEK
1995 theme: watch what you heat (home fire causes), 5.77
History of, 4.71
FIRE PROTECTION SYSTEMS
Chrysler Corp. Technology Center, 3.129
FIRE SAFETY
Contract with America's effect on fire safety, 3.46
Fire service public service programs, 1.70
NFPA General Manager Percy Bugbee's fire safety efforts, 6.77
United States should hold citizens responsible, 4.38
FIRE SAFETY EDUCATION
1995 Learn Not to Burn Champions, 5.103
Fire service public service programs, 1.70
First NFPA public service announcement campaign, 1950, 6.74
Safe Cities, Learn Not to Burn program for 10 cities, 3.75
FIRE SERVICE ADMINISTRATION
Burdens of command, 4.23
Denver, Colo., Fire Department is progressive, innovative, 3.118
Fire inspection requirements determined by life safety evaluation, 1.57
Leadership requires political savvy, 6.21
Member evaluation of fire department, 4.28
Truck company duties need emphasis in training, planning, 5.19
FIRE SERVICE APPARATUS AND EQUIPMENT
Fire fighter fatalities related to, 1994, 4.90
Fire fighter injuries related to, 6.65, 68, 69
FIRE SERVICE OPERATIONS
Fireground behavior after fire is out, 6.26
Hazardous materials incidents require new training, management skills, 2.90
Public service programs offered by fire services, 1.70
FIRE SERVICE OPERATIONS HAMPERED
Access limited by confined space, 6.98
Access limited by fire lane chains, 4.37
Access limited by nailed-shut door, 3.37
Access limited to two sides of building, 6.107
Access limited to wildland fire site, 6.111
Aerial ladder lacking, 6.106
Explosions of materials, 6.104
Hazardous materials, by presence of, 5.35, 6.38
Hydrant failed, 4.37
Hydrants at distance, 6.99, 107
Hydrants frozen, 6.100
Large size of fire, 6.104, 107
Response delayed, 3.37, 38
Roof collapse, 6.37, 100, 103, 106, 107, 108
Roof thickness delayed venting, 6.106
Safety of area had to be determined, 4.40
Smoke density, 6.107
Structural collapse, 3.40, 6.103, 104, 107
Structural collapse threatened, 3.37, 4.39, 5.35, 36
Water supply inadequate, 3.37, 4.37, 6.106, 107
Weather (high temperature), 5.67, 6.111
Weather (low temperature), 6.68
Weather (winter), 6.100, 106
FIRE SERVICE RESCUE AND EXTRICATION
Los Angeles County Fire Department search and rescue program meets diverse demands, 6.55
FIRE FIGHTER FATALITIES
Apartment building fire, New York, N.Y., March 28, 1994, 6.85
False alarm–related, U.S., 1984-1993, 1.48
U.S., 1994 report, 4.83
FIRE FIGHTER INJURIES
1994 report, 6.63
FIRE FIGHTER SAFETY
Analyze risk before risking lives, 1.21
FIRE FIGHTER TRAINING
Hazardous materials incidents use new training regimens, 2.90
Hazardous materials training programs' effectiveness questioned, 4.27
State fire training methods, 1.61
Stress, fear, of wildland fires counteracted by training, 4.41
Truck company duties need emphasis, 5.19
FIRESTOPPING
Lack of, factor in fire spread, 4.37
FIREWATCH COLUMNS, 1.31, 2.29, 3.37, 4.37, 5.33, 6.35
FIREWORKS
Illegal, cause of manufacturing plant fire, 3.40
Overview of fire losses, casualties caused by fireworks, 4.61
Text of NFPA's July 4, 1914, pamphlet against fireworks use, 4.81
FISH HATCHERY COMPLEX FIRE, LEAVENWORTH, WASH.
Wildland fire, 1994, 2.48
FLAME DETECTORS
Designing optical detection systems, 3.105
FLAMMABLE, COMBUSTIBLE LIQUIDS FIRES
Aircraft fuel ignites after crash, 6.110
Furniture refinishing liquids ignite trash, 6.38
Ink, in drums, ignited, 6.107
Stored liquids ignited by burning fragments from explosion, 5.66
Unknown liquid used to ignite catastrophic fires, 5.53, 58
Unknown liquid used to ignite fire, 5.34
Unknown liquid used to ignite large-loss fire, 6.99
FLASHOVERS
Apartment building fire, Illinois, March 20, 1995, 5.53
Group home fire, Illinois, 1994, 6.37
FLORIDA
Adult congregate living facility fire, 1994, 6.35
Catastrophic board-and-care facility fire, Dec. 1, 1994, 5.64
Catastrophic manufacturing plant explosion, April 13, 1994, 5.66
Fatal manufacturing plant explosion, April, 1994, 6.106
Hotel fire, 1994, 2.29
Restaurant fire, 1994, 2.31
FOAM
Aircraft fires extinguished with, 6.110
Electrical substation plant extinguished with, 6.100
Electronic equipment repair plant fire extinguished with, 6.108
NFPA report on foam and environment, 3.67
FOAM INSULATION. *See* INSULATION
FOAM RUBBER OR POLYURETHANE
Ignited in manufacturing plant fire, 6.107
Seat cushions, back ignited by accelerant, 6.104
FORSMAN, DOUGLAS P.
Profile of, 4.30
FOY, EDDIE
First person account of Iroquois Theatre fire, 4.75
FURNISHINGS
Block door in catastrophic fire, 5.59
FURNITURE, UPHOLSTERED
Chair, ignited by child playing with lighter, 3.38
Chair, ignited by furnace heat, 5.62
Chair, ignited in incendiary fire, 6.98
Sofa, ignited by child playing with cigarette lighter, 4.38, 6.36
Sofa, ignited by child playing with matches, 3.37
Sofa, ignited by cigarette, 5.60
Sofa, ignited by smoking materials, 5.56
Sofa, ignited by space heater, 5.58
Sofa, ignited by unknown cause, 5.54, 56

G

GABRIELE, ROCCO J.
Profile of, 2.22
GAS
Carbon monoxide is top hazard, 5.23
Hazardous incident responders need multigas detectors, 6.25
Natural gas odorant filtered out by soil, 5.62
GAS EXPLOSIONS
Coke gas with hydrogen, 5.64
New London, Texas, Junior-Senior High School, March 1937, 6.80
GAS FIRES. *See also* HEATING-AND-COOKING EQUIPMENT FIRES
Hydrogen, ignited by electrical arc, 6.102
Natural, ignited by pilot light, 3.39
Natural, ignited when lines ruptured, 6.103
GAS FIRES AND EXPLOSIONS
Hexane, vapors from leak ignited by automobile, 6.103
Hydrogen, ignited in power plant fire, 6.100
Natural, leak ignited, 1.33
Natural, leak ignited, possible fire cause, 6.103
Natural, leaking from service line, ignited by refrigeration compressor, 5.62
GAS LINES
Natural gas, ruptured by collapsing structural members, 6.103
Natural gas, service line leaks, causes explosion, fire, 5.62
GASOLINE. *See also* AUTOMOBILE FIRES; TRUCK FIRES
Used to ignite incendiary fire, 5.60, 66
Vapors ignited by cutting torch, 6.38
Vapors in bilge ignite boat explosion, fire, 4.39
GENERAL SLOCUM EXCURSION STEAMER FIRE, New York, N.Y.
Large-loss-of-life fire, 1904, 4.80
GEORGIA
Catastrophic manufactured home fire, April 11, 1994, 5.56
Hotel Winecoff fire, Atlanta, December 1946, 6.82
Manufacturing plant fire, 1994, 2.32
Manufacturing plant fire, March, 1994, 6.106
Store fire, Jan., 1994, 6.100
GREASE FIRES
Grease-covered structural components ignited, 6.102
Grease-laden combustibles ignited by fan short circuit, 6.106
Ignites on grill in restaurant fire, 2.31
GROSS, CAROL
Profile of, 3.31
GROUP HOME FIRES. *See also* ADULT CONGREGATE LIVING FACILITY FIRES; BOARD-AND-CARE FACILITY FIRES
Illinois, 1994, 6.37

H

HALONS
Extinguish aircraft fire, 6.110
Use continues despite available alternatives, 6.46
HANDICAPPED PERSONS
Americans with Disabilities Act, Title III, 4.54
Blind, nonambulatory woman dies when smoking materials ignite bedding, 2.30
Child in wheelchair dies in catastrophic fire, 5.58
Disabled grandmother unable to rescue children, 1.34
Mentally handicapped residents die in catastrophic fire, 5.62

Physically disabled persons die in catastrophic fire, 5.64
HAWKINS, JASPER STILLWELL
Profile of, 2.23
HAZARDOUS MATERIALS. *See also* HAZ-MAT ISSUES COLUMNS
Fire service applies new training and management skills to incidents, 2.90
Hazardous waste incinerator fire, Arkansas, 1994, 6.38
HAZ-MAT ISSUES COLUMNS
Carbon monoxide is top hazard, 5.23
EPA/National Response Teams report critiques federal agencies, 1.19
Federal haz-mat response needs simplification, standardization, 3.27
Multigas detectors are required equipment, 6.25
Training programs' effectiveness questioned, 4.27
HEATING-AND-COOKING EQUIPMENT FIRES
Electric heater ignites clothing, 4.38
Electric skillet, unattended, ignites trash, combustibles, 2.29
Electric space heater ignites bedding/clothing in catastrophic fire, 5.53
Electric space heater ignites hydraulic oil, 6.102
Electric space heater ignites love seat in catastrophic fire, 5.58
Furnace overheats due to improperly installed limit switch, 6.99
Gas ceiling heater ignites cardboard, 6.100
Gas stove, operating unattended, ignites cabinets, 5.56
Gas stove pilot ignites leaking natural gas, 3.39
Gas-fired furnace heat ignites upholstered chair, 5.62
Gas-fired furnace ignites clothing, 5.54
Gas-fired heating unit ignites stored combustibles, 1.34
Grill ignites grease, food, 2.31
Kerosene heater ignites combustibles, 1.34
Natural gas heater, under repair, leaks gas, 1.33
Natural gas water heater ignites stored combustibles, 5.60
Natural gas water heater possible catastrophic fire cause, 5.62
Oil-fired furnace vent ignites structural members, 5.54
Pot, unattended, melts, ignites wood cabinets, 5.53
Pot, unattended, overheats, causes grease to ignite, 5.62
Pot, unattended, overheats, ignites fatal fire, 5.34
Pot, unattended, overheats oil, which ignites catastrophic fire, 5.58
Propane heater, portable, ignites paper, 6.35
Propane heaters ignite wood sprinkler enclosures, 1.32
Space heater ignites structural components, 6.108
Wood stove near fire origin point, 5.58
HIGH-RISE BUILDING FIRES
World Trade Center, New York, evacuation behavior, 2.59
HISTORIC BUILDING FIRES
Massachusetts, 1994, 4.39
HOSPITAL FIRES
Catastrophic, Virginia, Dec. 31, 1995, 5.64
Illinois, 1994, 1.31
Ohio, 1994, 2.31
HOTEL FIRES
Florida, 1994, 2.29
Hotel Canfield, Dubuque, Iowa, June 1946, 6.82
Hotel Winecoff, Atlanta, Ga., 6.82
LaSalle Hotel, Chicago, Ill., June 1946, 6.82
Maine, March, 1994, 6.108
Michigan, 1994, 1.33

I

ILLINOIS
Apartment building fire, 1994, 4.37
Catastrophic apartment building fire, March 20, 1994, 5.53
Catastrophic dwelling fire, Aug. 14, 1994, 5.54
Club fire, 1994, 3.39
Dwelling fire, 1994, 6.36
Electric generating plant fire, Nov., 1994, 6.100
Fatal group home fire, 1994, 6.37
Fatal hospital fire, 1994, 1.31
LaSalle Hotel fire, Chicago, June 1946, 6.82
Manufacturing plant fire, March, 1994, 6.108
Manufacturing plant fire, Sept., 1994, 6.107
Manufacturing plant fires, 1994, 2.32, 3.38
Nuclear energy plant fire, April, 1994, 6.102
Warehouse fire, 1994, 3.38
INCENDIARY (SUSPICIOUS) FIRES
Catastrophic, apartment building, Illinois, March 20, 1994, 5.53
Catastrophic, apartment building, Minnesota, Feb. 28, 1994, 5.58
Catastrophic, dwelling, Indiana, June 30, 1994, 5.60
Catastrophic, dwelling, New York, June 28, 1994, 5.60
Catastrophic, dwelling, Pennsylvania, Dec. 23, 1994, 5.58
Catastrophic, hospital, Virginia, Dec. 31, 1994, 5.64
Catastrophic, store/apartment building, New York, Aug. 22, 1994, 5.66
Church, Ohio, 1994, 3.39
Club/restaurant/office building, Oklahoma, Jan., 1994, 6.98
College building, Rhode Island, 1994, 3.37
Detention center, Pennsylvania, 1994, 5.33
Dwelling, New York, 1994, 4.37
Fire fighter fatalities related to, 4.87
Hospital, Illinois, 1994, 1.31
Hospital, Ohio, 1994, 2.31
Hotel, Florida, 1994, 2.29
Industrial complex, Michigan, April, 1994, 6.108
Manufacturing plant, Arkansas, Dec., 1994, 6.106
Manufacturing plant, Arkansas, July, 1994, 6.104
Manufacturing plant, California, April, 1994, 6.107
Manufacturing plant, Georgia, March, 1994, 6.106
Manufacturing plant, Indiana, Oct., 1994, 6.104
Manufacturing plant, Maine, 1994, 5.34
Manufacturing plant, North Carolina, 1994, 2.32
Manufacturing plant, North Carolina, Oct., 1994, 6.103
Manufacturing plant, Ohio, Oct., 1994, 6.104
Office building/warehouse, Texas, Oct., 1994, 6.99
Office/apartment building, New York, Aug., 1994, 6.100
School, Indiana, Dec., 1994, 6.98
School, Minnesota, April, 1994, 6.98
Stores, Massachusetts, 1994, 4.39, 5.36
U.S. arson statistics: fire damage and firesetters, 2.112
Warehouse, Illinois, 1994, 3.38
Wildland/urban interface, Calif., Aug., 1994, 6.111
INCINERATOR FIRES
Arkansas, 1994, 6.38
INDIANA
Catastrophic dwelling fire, Aug. 9, 1994, 5.56
Catastrophic dwelling fire, June 30, 1994, 5.60
College building fire, 1994, 5.35
Manufacturing plant fire, July, 1994, 6.102
Manufacturing plant fire, Oct., 1994, 6.104
Manufacturing plant fires, June, 1994, 6.103
School fire, Dec., 1994, 6.98
INSULATION
Cellulose, ignited by welding, 2.32
Foam, ignited by welding, 6.106
Foil-faced, carries ground to roof, ignites framing, 5.35
Polyurethane, factor in fire spread, 6.107
Rigid plastic, ignited in incendiary fire, 6.104
INSURANCE
Citizens should be liable for fire-causing actions, 4.38
INTERIOR FINISHES
Cause of Cocoanut Grove nightclub fire, November 1942, 6.81
Cause of LaSalle Hotel fire, Chicago, Ill., June 1946, 6.82
Wall paneling fuels catastrophic dwelling fire, 5.60
IOWA
Catastrophic automobile fire, Nov. 23, 1994, 5.68
Catastrophic dwelling fire, March 24, 1994, 5.54
Catastrophic manufacturing plant fire, Dec. 13, 1994, 5.66
Catastrophic restaurant fire, Oct. 17, 1994, 5.62
Hotel Canfield fire, Dubuque, June 1946, 6.82
IROQUOIS THEATRE FIRE, CHICAGO, ILL.
Eddie Foy's first person account, 4.75

J

JUVENILE FIRESETTING
Church fire cause, 1994, 3.39
Club/restaurant/office building fire cause, 6.98
Detention center fire cause, 5.33
Dwelling fire cause, 4.37
Major cause of U.S. arson fires, 2.112
Social services needed by troubled children, 3.23
Store/apartment building fire cause, 5.66

K

KANSAS
Fatal vehicle fire, 1994, 2.31
Warehouse fire, 1994, 4.39
KEIGHER, DONALD J.
Profile of, 5.27
KENTUCKY
Catastrophic manufactured home fire, Sept. 30, 1994, 5.60
College building fire, 1994, 5.35
Manufacturing plant fire, Feb., 1994, 6.106
KUNG, HSIANG-CHENG
Profile of, 4.31

L

LANTERNS
Propane lantern, without glass, ignites combustibles, 5.36
LARGE VOLUME SPACES
Fire spread factor, 6.98
LARGE-LOSS FIRES, U.S.
1994, study of, 6.94
History of study, 5.87
LARGE-LOSS-OF-LIFE FIRES
General Slocum excursion steamer, New York, N.Y., 1904, 4.80
Iroquois Theatre, Chicago, Ill., 1903, 4.75
Ohio State Penitentiary, April 21, 1930, 5.84
LEAVENWORTH, WASH.
Wildland fire, 1994, 2.48
LIFE SAFETY CODE
Evaluating equivalencies and exceptions, 1.16
History of, 5.82
LIGHTNING
Church fire cause, 6.98
Wildland fire cause, 5.67
Wildland/urban interface fire cause, 6.111
LINT
Factor in textile manufacturing plant fire, 6.107
LOPES, ROCKY
Profile of, 1.22
LOS ANGELES, CALIF.
Urban search and rescue program meets diverse demands, 6.55
LOUISIANA
Catastrophic apartment building fire, Aug. 10, 1994, 5.60
LP-GAS FIRES
Bulk storage facility, Texas, 1.31

M

MAINE
Manufacturing plant fire, 1994, 5.34
Motel fire, March, 1994, 6.108
MANN GULCH FIRE, MONT.
Wildland fire, 1949, 2.42
MANUFACTURED HOME FIRES
Catastrophic, Georgia, April 11, 1994, 5.56
Catastrophic, Tennessee, March 4, 1994, 5.56
MANUFACTURING PLANT EXPLOSIONS
Paper, Florida, April 13, 1994, 5.66, 6.106
Steel, Ohio, April 20, 1994, 5.64
MANUFACTURING PLANT FIRES
Aluminum, Indiana, July, 1994, 6.102
Aluminum, Massachusetts, 1994, 1.33
Brass rolling, Illinois, March, 1994, 6.108
Buses, Arkansas, July, 1994, 6.104
Cardboard, North Carolina, 1994, 3.40
Chemical fertilizer, Iowa, Dec. 13, 1994, 5.66
Chemicals, Ohio, May 27, 1994, 5.66
Christmas ornaments, North Carolina, Oct., 1994, 6.103
Dry cleaning/mixed, Michigan, April, 1994, 6.108
Electronics, Massachusetts, 1994, 3.40
Electronics repair, Texas, Oct., 1994, 6.108
Food processing, California, April, 1994, 6.107
Food processing, Indiana, June, 1994, 6.103
Food processing, Missouri, Oct., 1994, 6.104
Furniture, Georgia, March, 1994, 6.106
Furniture, Indiana, Oct., 1994, 6.104
Furniture, North Carolina, Oct., 1994, 6.103
Meat processing, California, March, 1994, 6.106
Meat processing, Kentucky, Feb., 1994, 6.106
Methanol production, Texas, Oct., 1994, 6.102
Pens, Illinois, Sept., 1994, 6.107
Plastic auto parts, Ohio, Oct., 1994, 6.103
Plastics, Massachusetts, Feb., 1994, 6.107
Plastics, North Carolina, 1994, 2.32
Polyurethane foam, Aug., 1994, 6.107
Pottery, china, earthenware, Oct., 1994, 6.104

Poultry processing, Arkansas, 1994, 6.106
Printing, Wisconsin, 1994, 2.30
Protective materials, Maine, 1994, 5.34
Railroad cars, Illinois, 1994, 3.38
Rubber, California, 1994, 4.40
Steel, Ohio, 1994, 6.37
Steel, West Virginia, April, 1994, 6.102
Textiles, Alabama, Feb., 1994, 6.107
Wire, Illinois, 1994, 2.32
Yarn dyeing, Georgia, 1994, 2.32
MARINAS
Electrical safety requirements, 5.40
MARYLAND
Catastrophic dwelling fire, Feb. 26, 1994, 5.53
Catastrophic dwelling fire, Jan. 9, 1994, 5.54
Fatal dwelling fire, 1994, 3.38
MASSACHUSETTS
Boat fire, 1994, 4.39
Catastrophic apartment building fire, March 21, 1994, 5.59
Catastrophic dwelling fire, Dec. 24, 1994, 5.54
Cocoanut Grove nightclub fire, Nov. 1942, 6.81
Dwelling-under-construction fire, 1994, 1.34
Fatal apartment building fire, 1994, 5.34
Manufacturing plant fire, 1994, 1.33, 3.40
Manufacturing plant fire, Feb., 1994, 6.107
Nursing home fire, 1994, 5.33
Store fire, 1994, 4.39, 5.36
Warehouse fire, 1994, 1.32
MATTRESSES
Ignited by children with cigarette lighter, 5.34
Ignited by cigarette, 6.35
Ignited by kerosene heater in fatal fire, 1.34
Ignited by mercury vapor light fixture, 4.39
MICHIGAN
Apartment building fire, Feb., 1994, 6.99
Catastrophic dwelling fire, July 13, 1994, 5.56
Fatal motel fire, 1994, 1.33
Manufacturing plant fire, April, 1994, 6.108
Restaurant fire, 1994, 1.34
MILL FIRES
Paper, Florida, April 13, 1994, 5.66, 6.106
Steel, West Virginia, April, 1994, 6.102
MILLER, GEORGE D.
Interview with, 3.84
MINNESOTA
Catastrophic apartment building fire, Feb. 28, 1994, 5.58
School fire, April, 1994, 6.98
School-under-construction fire, 1994, 3.39
MISSISSIPPI
Catastrophic dwelling fire, April 3, 1994, 5.59
Fatal dwelling fire, 1994, 4.38
MISSOURI
Fatal apartment building fire, 1994, 3.37
Fatal dwelling fire, 1994, 5.34
Manufacturing plant fire, Oct., 1994, 6.104
MONTANA
Catastrophic dwelling fire, Sept. 24, 1994, 5.60
Wildland fire, Mann Gulch, 1949, 2.42
MOTEL FIRES. *See* HOTEL FIRES
MOTOR HOME FIRES
California, 1994, 5.36
MUSEUM FIRES
Oregon, 1994, 6.35
Wisconsin, June, 1994, 6.98
MUTUAL-AID RESPONSE
Manufacturing plant fires, 6.104, 107

N

NATIONAL ELECTRICAL CODE®
Boat repair safety requirements for wiring, equipment, 5.40
Development of 1996 code, 5.73
High-voltage equipment safety, 2.34
Work space requirements for energized electrical equipment, 1.37
NEW JERSEY
Catastrophic dwelling fire, Dec. 28, 1994, 5.53
Fatal dwelling fire, 1994, 6.37
NEW YORK
Apartment building fire, March 28, 1994, 6.85
Catastrophic dwelling fire, Dec. 4, 1994, 5.62
Catastrophic dwelling fire, Feb. 10, 1994, 5.54
Catastrophic dwelling fire, Jan. 28, 1994, 5.58
Catastrophic dwelling fire, June 28, 1994, 5.60
Catastrophic high-rise complex fire, Feb. 26, 1993, 2.59
Catastrophic store/apartment building fire, Aug. 22, 1994, 5.66
Fatal dwelling fire, 1994, 4.37
Office building/apartment building fire, Aug., 1994, 6.100
NEW YORK, N.Y.
Backdraft incident model, apartment building fire, March 28, 1994, 6.85
World Trade Center explosion/fire, Feb. 26, 1993, 2.59
NFPA
Board of Directors new member profiles, 3.122
Fall Meeting 1995, preview, 5.122
Financial report, 1994, 3.115
First public service announcement campaign, 1950, 6.74
Foam Technical Committee report on foam and environment, 3.67
Founders of, 3.97
General Manager Percy Bugbee's fire safety efforts, 6.77
History of Fire Analysis and Research Division, 6.76
100th anniversary supplements, 3.83, 4.68, 5.81, 6.73
Sections of, 6.78
NFPA ANNUAL MEETING, NINETY-NINTH
Highlights of 1995 meeting, 4.94
Preview, '95, 2.75, 3.118
NFPA CODES AND STANDARDS
History of first standard, 4.68
NFPA 1600, *Disaster Management*, 4.49
NFPA 101, *Life Safety Code*, history of, 5.82
NFPA 1051, *Wildland Fire Fighter Professional Qualifications*, approved, 5.39
NFPA 101A, *Alternative Approaches to Life Safety*, Fire Safety Evaluation System, 6.22
Performance-based code development, 2.16
Performance-based codes based on existing codes, 3.24
Standards Council's history, 5.89
911 SERVICE
E911 fails in telephone exchange fire, 5.109
NORTH CAROLINA
Aircraft fire, June, 1994, 6.110
Catastrophic aircraft fire, July 2, 1994, 5.68
Catastrophic aircraft fire, March 23, 1994, 5.67
Catastrophic dwelling fire, Feb. 28, 1994, 5.58
Fatal aircraft fire, July, 1994, 6.110
Fatal apartment building fire, 1994, 4.38, 5.34
Fatal dwelling fire, 1994, 1.34
Manufacturing plant fires, 1994, 2.32, 3.40
Manufacturing plant fires, Oct., 1994, 6.103
Warehouse fire, 1994, 6.38
NORTH DAKOTA
Catastrophic dwelling fire, Oct. 7, 1994, 5.53
NORTHRIDGE, CALIF., EARTHQUAKE
Relief agencies pick up pieces, 3.52
NUCLEAR ENERGY PLANT FIRES
Illinois, April, 1994, 6.102
NURSING HOME FIRES
Knox County, Tenn., April 25, 1994, 2.85
Massachusetts, 1994, 5.33

O

OFFICE BUILDING FIRES
California, 1994, 5.35
New York, Aug., 1994, 6.100
Oklahoma, Jan., 1994, 6.98
Texas, Oct., 1994, 6.99
Utah, 1994, 3.40
World Trade Center, New York, evacuation behavior, 2.59
OHIO
Building-under-construction fire, March, 1994, 6.110
Catastrophic apartment building fire, Jan. 12, 1994, 5.58
Catastrophic dwelling fire, Jan. 26, 1994, 5.56
Catastrophic manufacturing plant explosion, April 20, 1994, 5.64
Catastrophic manufacturing plant fire, May 27, 1994, 5.66
Church fire, 1994, 3.39
Fatal aircraft fire, Jan., 1994, 6.110
Fatal hospital fire, 1994, 2.31
Manufacturing plant fire, 1994, 6.37
Manufacturing plant fires, Oct., 1994, 6.103, 104
OHIO STATE PENITENTIARY FIRE
Columbus, Ohio, April 21, 1930, 5.84
OIL
Hydraulic oil sprayed onto space heater, ignites, 6.102
Leaking oil atomized, ignites, possible fire cause, 6.103
Lubricating oil ignited in power plant fire, 6.100
No. 2 fuel oil, leaked, ignites, 1.33
Oil on compressor ignited by heat, 3.40
OKLAHOMA
Catastrophic dwelling fire, Nov. 20, 1994, 5.62
Office building fire, June, 1994, 6.98
OKLAHOMA CITY, OKLA.
Alfred P. Murrah Federal Building bombing, April 19, 1995, 4.51
OPENINGS. *See also* STAIRWAYS
Fire spread through, 5.33, 6.104
OREGON
Fatal wildland/urban interface fire, Aug., 1994, 6.111
Museum fire, 1994, 6.35

P

PENNSYLVANIA
Catastrophic dwelling fire, April 6, 1994, 5.59
Catastrophic dwelling fire, Dec. 23, 1994, 5.58
Catastrophic dwelling fire, Oct. 21, 1994, 5.60
Detention facility fire, 1994, 5.33
Dormitory fire, April, 1994, 6.99
Fatal dwelling fire, 1994, 1.34
Shopping mall fire, Dec., 1994, 6.99
Store fire, Dec., 1994, 6.99
PERSONAL PROTECTIVE EQUIPMENT
Performance in wildland fire, 5.67
PLASTICS FIRES
Embers ignite polyurethane, 3.38
Fan motor overheats, ignites plastic trim, 5.33
Plastic pellets ignited, 6.103
Rigid plastic insulation, ignited in incendiary fire, 6.104
PRESCRIBED BURNS
Fire spread beyond containment lines, Texas, 1994, 2.31
PROFILE COLUMNS
Bell, A. D., 5.26
Belles, Donald, 6.29
Brannigan, Frank, 1.23
Ewell, P. Lamont, 3.30
Forsman, Douglas P., 4.30
Gabriele, Rocco J., 2.22
Gross, Carol, 3.31
Hawkins, Jasper Stillwell, 2.23
Keigher, Donald J., 5.27
Kung, Hsiang-Cheng, 4.31
Lopes, Rocky, 1.22
Wilson, Dean, 6.28
PROPANE
Cylinders explode in auto repair shop fire, 6.100
Heater, portable, ignites paper, 6.35
Heaters ignite wood sprinkler enclosures, 1.32

R

RADIO STATION FIRES
California, 1994, 4.40
RELIEF AGENCIES
Efforts after Northridge, Calif., earthquake, 3.52
RESIDENTIAL FIRES. *See also* APARTMENT BUILDING FIRES; DWELLING FIRES; MANUFACTURED HOME FIRES
Fire fighter fatalities related to, 4.87
RESTAURANT FIRES
Catastrophic, Iowa, Oct. 17, 1994, 5.62
Florida, 1994, 2.31
Michigan, 1994, 1.34
Oklahoma, Jan., 1994, 6.98
RHODE ISLAND
College building fire, 1994, 3.37
Store fire, 1994, 3.39
Warehouse fire, 1994, 3.39
ROCKET FUELS
Mixture ignites, causes test facility explosion, fire, 4.40
ROOFS
Asphalt layers factor in fire spread, 6.107
Collapse hampers fire service operations, 6.37, 100, 106, 107, 108
Ignited by electrical grounding, 5.35
Lightning travels along metal roof, ignites rafters, 6.98
Metal roof installed over existing roof created concealed spaces, 4.40
Roofers run screw through electrical conduit, ignite fire, 6.99
Roofer's torch ignites insulation, 3.40

Roofer's torch ignites roof, 6.98
Sawtooth roof design channeled fire to assembly area, 6.104
Thickness of concrete delays venting, 6.106
RUBBER FIRES
Hot rubber waste ignited in waste hopper, 4.40
RUBBISH AND TRASH
Electric skillet ignites trash container, 2.29
Rags soaked with stain ignite other trash, 6.38

S

SCHOOL EXPLOSION
New London, Texas, Junior-Senior High School, March 1937, 6.80
SCHOOL FIRES
Under construction, Minnesota, 1994, 3.39
Secondary, Indiana, April, 1994, 6.98
Secondary, Indiana, Dec., 1994, 6.98
SECURITY PROVISIONS
Security bars, factor in fatal fire, 2.29
Security gates, factor in fatal fire, 3.37
SHIP FIRES
Large-loss-of-life, *General Slocum* excursion steamer, New York, N.Y., 1904, 4.80
SHOPPING MALL FIRES
Pennsylvania, Dec., 1994, 6.99
SMOKE INHALATION
Smoke and burns compared as fire death causes, 1.38
SMOKING MATERIALS
Careless disposal of, catastrophic fire cause, 5.56, 64
Careless disposal of, dwelling fire cause, 1.34
Careless disposal of, possible wildland/urban interface fire cause, 6.111
Careless disposal of, warehouse fire cause, 2.30
Careless use of, dwelling fire cause, 2.30
Incendiary fire started by, catastrophic fire cause, 5.64
SOLVENTS
Drums of solvent ignited, 6.103
Ignited by hot engine, 3.39
SOUTH CANYON FIRE, COLORADO
Wildland fire, 1994, 2.51
SOUTH CAROLINA
Electric generating plant fire, Dec., 1994, 6.100
SPONTANEOUS IGNITION
Stain-soaked rags, 6.38
SPRINKLER SYSTEMS
Nursing home fire verifies authority having jurisdiction/engineers joint design, 2.85
SPRINKLER SYSTEMS NOT A FACTOR IN FIRE
Disconnected, 6.108
Disconnected due to ongoing construction, 6.35, 108
Fire above reach of system, 6.107
Heat not sufficient to activate, 5.33
Not operational, 6.108
Not operational due to poor maintenance, 6.104
Partial system only, 1.31
Water pipes frozen, 1.32
SPRINKLER SYSTEMS, SATISFACTORY PERFORMANCE, 1.34, 2.29, 30, 32, 85, 3.39, 40, 4.40, 5.33, 6.37, 38, 98, 104
SPRINKLER SYSTEMS, UNSATISFACTORY PERFORMANCE
Inadequate for hazard, 6.107
Shut down prematurely, 6.103
STAIRWAYS
Catastrophic fires spread up, 5.53, 54, 58, 59, 60
Fire spread up, 6.106
STORAGE FACILITIES FIRES
Catastrophic, chemical storage, Ohio, May 27, 1994, 5.66
Food storage, California, April, 1994, 6.107
Food storage, Missouri, Oct., 1994, 6.104
Furniture storage, Georgia, March, 1994, 6.106
LP-gas bulk storage, Texas, 1994, 1.31
Motor home, California, 1994, 5.36
Vehicle storage and workshop building, Texas, 1994, 6.38
STORE FIRES. *See also* SHOPPING MALL FIRES
Automobile repair shop, Georgia, Jan., 1994, 6.100
Building materials/lumberyard, Alaska, April, 1994, 6.100
Department, Pennsylvania, Dec., 1994, 6.99
Grocery, New York, Aug. 22, 1994, 5.66
Mixed use, Massachusetts, 1994, 4.39
Rental, Rhode Island, 1994, 3.39
Supermarket, Massachusetts, 1994, 5.36
STRUCTURES
Fire fighter fatalities while operating inside, 4.84
SUPPRESSION SYSTEMS
Limits electrical generating plant large-loss fire spread, 6.100

T

TANK STORAGE FACILITIES FIRES
Catastrophic, Iowa, Dec. 13, 1994, 5.66
Catastrophic, Ohio, May 27, 1994, 5.66
TAVERN FIRES. *See* RESTAURANT FIRES
TENNESSEE
Catastrophic manufactured fire, March 4, 1994, 5.56
Catastrophic vehicle fire, Nov. 11, 1994, 5.68
Nursing home fire, April 25, 1994, 2.85
TEST FACILITIES FIRES
Rocket fuel propellants, California, 1994, 4.40
TEXAS
Catastrophic vehicle fire, Jan. 18, 1994, 5.68
Fatal dwelling fire, 1994, 2.29
Manufacturing plant fire, Oct., 1994, 6.102, 108
New London, Texas, Junior-Senior High School, March 1937, 6.80
Office building/warehouse fire, Oct., 1994, 6.99
Prescribed burn spreads beyond containment, 1994, 2.31
Storage facility fire, 1994, 1.31, 6.38
Warehouse fire, July, 1994, 6.108
Wildland fire, 1994, 2.31
THEATER FIRES
Iroquois Theatre fire, Chicago, Ill., Dec. 30, 1903, 4.75
THOMAS, H. EMERSON
Interview with, 5.86
TORCHES
Cutting, ignites cardboard, plywood, 6.104
Cutting, ignites ceiling material, 6.108
Cutting, ignites gasoline vapors, 6.38
Cutting, ignites wood, 5.35
Roofing, ignites insulation, 3.40
Roofing, ignites roof, 6.98
TRUCK FIRES
Catastrophic, California, March 3, 1994, 5.68
Catastrophic, Tennessee, Nov. 11, 1994, 5.68
Catastrophic, Texas, Jan. 18, 1994, 5.68
Catastrophic, Wisconsin, Nov. 11, 1994, 5.67

U

UNITED STATES
Catastrophic fires, 1994, 5.48
Civilian deaths, 1994, 5.93
Fire deaths caused by smoke and burns, 1.38
Fire losses, 1994, 5.93
Fire fighter fatalities, 1994, 4.83
Fire fighter injuries, 1994, 6.63
Large-loss fires, 1994, 6.94
Large-loss fires, history of study, 5.87
UNITED STATES GOVERNMENT
"Contract with America's" effect on fire service and fire safety, 3.46
Federal haz-mat response critiqued, 1.19
Federal haz-mat response needs simplification, standardization, 3.27
FEMA's disaster management role, 4.46
URBAN FIRE FORUM
Global trends discussed at fifth forum, 1.104
UTAH
Apartment building fire, 1994, 6.36
Office building fire, 1994, 3.40
UTILITIES
Electricity shut off for nonpayment, factor in catastrophic fire, 5.53
Electricity shut off for repair, factor in catastrophic fire, 5.59

V

VAN FIRES. *See* TRUCK FIRES
VAULTS
Electrical arc fire, in belowgrade room, 5.35
VEHICLE FIRES. *See also* AIRCRAFT CRASH FIRES; AUTOMOBILE FIRES; TRUCK FIRES
Statistics compared to aircraft fire statistics, 4.120
VERTICAL OPENINGS. *See also* STAIRWAYS
Fire spread through, 5.33
VIRGINIA
Catastrophic automobile fire, Aug. 1, 1994, 5.68
Catastrophic hospital fire, Dec. 31, 1994, 5.64
Church fire, July, 1994, 6.98
Warehouse fire, 1994, 2.30
VOLUNTEER FIRE SERVICE. *See also* VOLUNTEER VIEWS COLUMNS
NFPA's *Volunteer Firemen* magazine, 5.90
VOLUNTEER VIEWS COLUMNS
Analyze risk before risking lives, 1.21
Financial incentives to improve recruitment, retention, 2.21
Fireground behavior after fire is out, 6.26
Membership evaluation of fire department, 4.28
Records and department historian preserve the past, 3.28
Recruiting a new generation of volunteers, 5.24

W

WACO, TEXAS
Branch Davidian complex fire investigation, Congressional testimony, 6.91
WALLS
Collapse, hamper fire fighting, 6.103, 107
WALLS, FIRE
Contained fire spread, 5.34, 6.38, 104
Unprotected openings allowed fire spread, 6.103
WAREHOUSE FIRES
Cold storage, Texas, 1994, 6.108
Furniture, Illinois, 1994, 3.38
Furniture, North Carolina, 1994, 6.38
General, Massachusetts, 1994, 1.32
General, Rhode Island, 1994, 3.39
General, Virginia, 1994, 2.30
Ohio, Jan., 1994, 6.110
Retail merchandise, Kansas, 1994, 4.39
Texas, Oct., 1994, 6.99
WASHINGTON
Fatal dwelling fire, 1994, 6.36
Fatal wildland/urban interface fire, July, 1994, 6.111
Wildland/urban interface fire, July, 1994, 2.48, 6.111
WELDING-AND-CUTTING OPERATIONS
Ignites cellulose insulation, 2.32
Ignites foam insulation, 6.106
Ignites paper wrapping, 3.39
Torch ignites cardboard, plywood, 6.104
Torch ignites ceiling material, 6.108
Torch ignites gasoline vapors, 6.38
Torch ignites wood, 5.35
WELLS, JACK
Interview with, 3.85, 4.97
WEST VIRGINIA
Manufacturing plant fire, April, 1994, 6.102
WILDFIRE MANAGEMENT COLUMNS
Internet's fire protection applications, 6.41
NFPA 1051, *Wildland Fire Fighter Professional Qualifications*, approved, 5.39
Training needed to counteract stress, fear, and panic, 4.41
WILDLAND FIRES
1994 fire season overview, 2.36
California, Aug., 1994, wildland/urban interface, 6.111
California, June, 1994, wildland/urban interface, 6.111
Catastrophic, Colorado, July 3, 1994, 5.67
Colorado, South Canyon, July, 1994, 2.51
Firefighter fatalities related to, 1994, 4.86, 87, 93
Montana, Mann Gulch, 1949, 2.42
Oregon, wildland/urban interface, Aug., 1994, 6.111
Texas, 1994, 2.31
Washington, July, 1994, Fish Hatchery Complex, 2.48
Washington, July, 1994, wildland/urban interface, 6.111
WIND
Fire-generated, contributes to wildland fire spread, 6.111
High, intensifies fire spread, 5.54, 67, 6.99
WINDOWS
Fire vented through, 5.53, 54, 56, 58, 59
Security bars factor in fatal fire, 2.29
WISCONSIN
Catastrophic truck fire, Nov. 11, 1994, 5.67
Manufacturing plant fire, 1994, 2.30
Museum fire, June, 1994, 6.98
WOOD AND WOOD PRODUCTS
Aged plywood interior contributes to fire spread, 6.107
WORLD TRADE CENTER, New York, N.Y., EXPLOSION AND FIRE
Human behavior during evacuation, 2.59

AUTHOR INDEX

B

Baden, William, 2.51
Badger, Stephen, 6.94
Bailey, Dan W., 4.41, 5.39, 6.41
Batista, David, 4.54
Bokman, Lloyd, 4.49
Bukowski, Richard W., 2.68, 6.85

C

Callan, Michael J., 1.19, 3.27, 4.27, 5.23, 6.25
Caloggero, John M., 1.37, 2.34, 3.45, 4.42, 5.40, 6.42
Cholin, John M., 1.49
Collins, Larry, 6.55
Comeau, Edward, 4.51

D

Darwin, Robert L., 3.67
Drennan, Vina, 6.88

F

Fahy, Rita F., 2.59, 4.83, 6.94
Foley, Stephen N., 3.52, 4.51
Franchuk, Darrell M., 2.85

G

Garboden, Clif, 4.71, 5.77
Golan, Reuven, 3.129
Gott, Joseph E., 3.67
Granito, John A., 1.70, 76, 4.44
Grant, Casey C., 2.42, 4.80

H

Hall, John R., Jr., 1.38, 3.87
Hanauska, Christopher, 3.67
Harvey, Clifford S., 1.57
Harwood, Beatrice, 1.38
Hawk, Douglas D., 4.94
Hershfield, Valerie, 1.46, 84, 2.64, 3.75, 84

I

Isner, Michael S., 2.51, 5.109

J

Johnson, J. T., 3.75
Juniel, Roderick A., 3.118

K

Karter, Michael J., Jr., 5.93, 6.63
Kaye, Susan, 2.75
Kerr, James W., 4.49
King, Russell, 2.90
Kirby, Ron, 1.54
Koffel, William E., 1.16, 2.16, 3.24, 4.24, 5.20, 6.22
Krantz, Neal W., 3.129

L

LeBlanc, Paul R., 4.83, 6.63

M

McMillan, John, 4.38
Miller, George D., 1.6, 2.6, 3.6, 4.6, 5.6
Monigold, Gerald E., 1.61
Moore, Wayne D., 1.49

N

Norman, Edward C., 3.67

O

O'Mahoney, Brian, 5.46
Ottman, Richard E., 3.67

P

Parker, John W., 3.46, 5.42
Powell, Pamela, 4.98
Proulx, Guylène, 2.59

R

Russo, Warren P., 2.48

S

Sanders, Russell E., 1.104, 2.112, 3.23, 4.23, 5.19, 6.21
Scott, David, 5.98, 5.103
Seaton, Michele, 6.46
Stittleburg, Philip C., 1.21, 2.21, 3.28, 4.28, 5.24, 6.26

T

Teague, Paul E., 1.22, 2.22, 3.30, 4.30, 5.26, 6.28
Tremblay, Kenneth J., 1.31, 2.29, 3.37, 4.37, 5.33, 48, 6.35

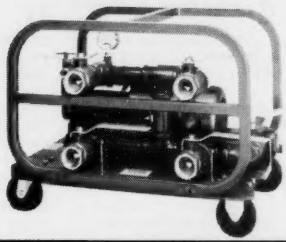
W

Waggoner, W. Wayne, 2.85
Washburn, Arthur, 4.83
Wek, Robert J., 3.105
Williams, Woody, 2.36
Wolf, Alisa, 5.73

For order and upgrade information call
1-800-275-4246
AIM SAFETY USA Inc.

Circle No. 004 on Reader Service Card

FIRE HOSE TESTER
Rice FH-3



FIVE YEAR WARRANTY

✔ *Safer* ✔ *Less Expensive*
✔ *More Efficient*

No need to damage your pumper with high pressure or risk an injury from a wild line. Get the newest technology in fire hose testers from **RICE HYDRO,**
THE WORLD LEADER IN HYDROSTATIC TEST PUMPS!

Rice HYDRO EQUIPMENT MFG.
2020 South Vineyard Avenue
Ontario, CA 91761
1-800-245-4777

NFPA-J-11-95

Circle No. 014 on Reader Service Card